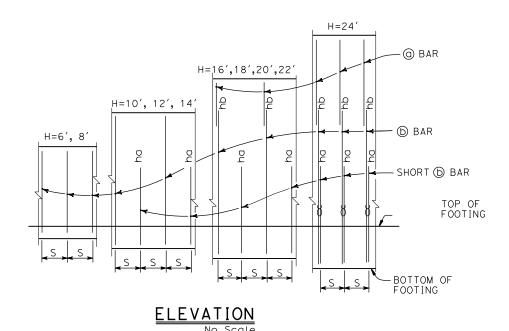


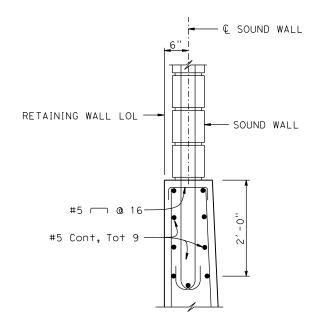
NOTES:

Only © bars shown "S" is © bar spacing, see table 8: indicates 2 bar bundle



NOTES:

"ha" and "hb" above (b) bars indicate distance from top of footing to upper end of (b) bars, see table.
"S" is (b) bar spacing, see table. 0: indicates 2 bar bundle



DETAIL A

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications 4th edition with California Amendments

COUNTY

PLANS APPROVAL DATE

REGISTERED CIVIL ENGINEER DATE

The State of California or its officers or agents

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CIVIL

33 psf on sound wall

Varied surcharge on level ground surface

EQE: Mononabe-Okabe Method

> = 0.3 $K_{V} = 0.0$

 $\emptyset = 34^{\circ}$ Soil: y = 120 pcf

Reinforced Concrete: f'c = 3600 psi fy = 60,000 psi

Load Combinations and Limit States

Service I Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS

Service II

Q=1.00DC+1.00EV+1.00EH+1.00WS

Strength I

Strength III Q=aDC+BEV+1.50EH+1.40WS

Strength V

Q=aDC+BEV+1.50EH+1.35LS+0.40WS

Extreme I Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE

Where:

Force Effects
1.25 or 0.90, Which ever Controls Design
1.35 or 1.00, which ever Controls Design
Dead Load of Structure Components Q: a:

EV: Vertical Earth Fill Pressure

LS: Live Load Surcharge EQE: Seismic Earth Pressure

EQD: Soil and Structure Components Inertia.
Soil inertia ignored for stem design
WS: Wind Load on Sound Wall and Barrier

STANDARD DRAWING BRIDGE NO. STATE OF DIVISION OF Χ **CALIFORNIA** FILE xs14-360-2 **ENGINEERING SERVICES** RETAINING WALL TYPE 5SWP-DETAILS NO. 2 DEPARTMENT OF TRANSPORTATION APPROVAL DATE July 2011 DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS PROJECT NUMBER & PHASE: X CONTRACT NO.: X

FILE => \$REQUEST